WIDE

Maximum Visual Precision

InterFace
New Power Series

Flat Panel Monitor Solutions for Medical Imaging

www.widecorp.com

WIDE

New Power Series Monitors

Your search has ended for the most advanced medical displays that sophisticated medical professionals are demanding. Following the successful M Series that launched our intelligent automatic calibration IQ Sensor™, WIDE unveils the Power Series for an unprecedented medical imaging display solution.

Whether a discerning professional is seeking superb speed rendering, ultimate uniformity compliance, richer grayscale tones, automatic calibration capability, image quality control system by network, consistent brightness control, user friendly medical design or even a long-lasting warranty, WIDE delivers the perfect solution with the Power Series.

Legend

- 12BIT 12BIT — Grayscale/Color
- 10BIT 10BIT — Grayscale/Color
- IQSensor — DICOM Sensor (IQ Sensor™ II)
- LUC — Luminance Uniformity Control (LUC)
- SBC — Stable Brightness Control (SBC)
- DAC — Digital Ambient Control (DAC)
- High Brightness
- Touch Button
- OSD — OSD Pivot
- DVI VGA VIDEO — Input Source
- Pivot — Pivot
- Multi function Stand-base — Multi-function Stand-base
- Protector — Protector Glass(Optional)
- 3YR — 3 Years Warranty

Medical Monitor Solutions
Power Series

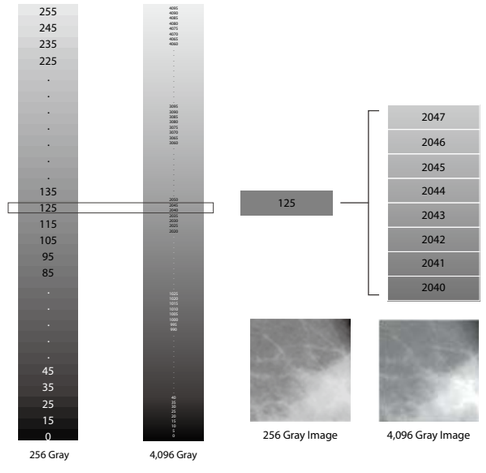
3rd Generation of Digital Signal Processor (DSP) MEDiX III

The new Power Series monitors equip the WIDE's 3rd generation of Digital Image Processor of MEDiX III IC which is an innovative set of digital image processing to deliver the best image quality of medical imaging. The MEDIX III manages the entire imaging processing from the video source input to the flat panel display output such as 12-bit data processing, automatic image calibration, On Screen Display management, system level management for instance Self Brightness Control (SBC), IQ Sensor™, Luminance Uniformity Control (LUC), Digital Ambient Control (DAC), and power management in conjunction with a Strong Arm based Microprocessor.

12-Bit Grayscales for Precise Expression

The 12-bit grayscale performance enriches with 4096 unique tones. The 12-bit architecture renders each grayscale level with precision.

※ 12-bit view software is required for 12-bit displays

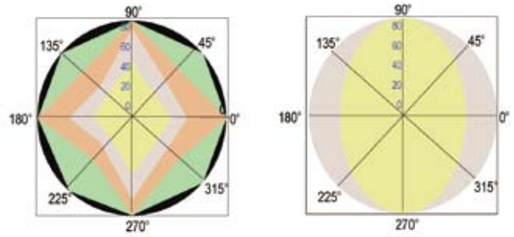


Broad Compatibility through Digital Video Interface (DVI)

The new Power Series monitors are able to connect using a variety of Digital Video Interface (DVI) protocols for maximum flexibility when choosing a graphics card. WIDE monitors interface with Single-Packed Pixel format, Dual-Packed Pixel format, VESA Industrial Standard format, and WIDE standard format

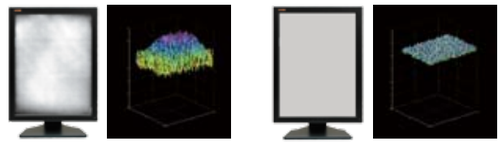
Minimal Color Variation in Viewing Angle

The new TFT LCD display of the new Power series monitors cover superior viewing angle using the new IPS (In-Plane Switching) technology. It supports very much higher level consistency of the image display and minimize the variation of uniformity and color in terms of the angle of viewing points.



Luminance Uniformity Control (LUC)

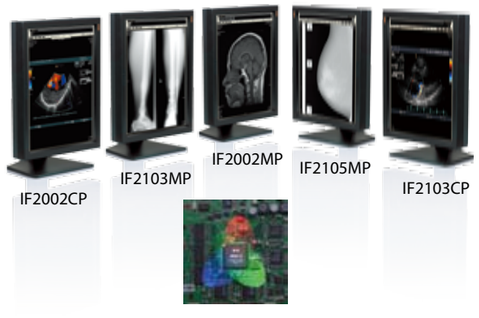
Medical imaging displays demand highly accurate luminance uniformity across the screen. However, uniformity is difficult to achieve because of how TFT LCD displays are constructed. Our Luminance Uniformity Control (LUC) function normalizes luminance from edge to edge.



Without Luminance Uniformity Control (LUC) With Luminance Uniformity Control (LUC)

Single Platform Features

All of Power series monitors equip a set of single platform features with high advanced and very rich features and functionality.

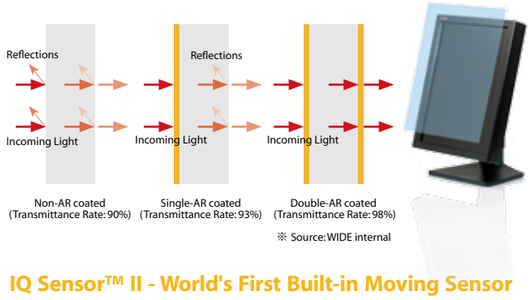


Worldwide 3 Years Warranty

The New Power series monitors offer full three-year limited warranty in worldwide thanks to its great quality assurance.

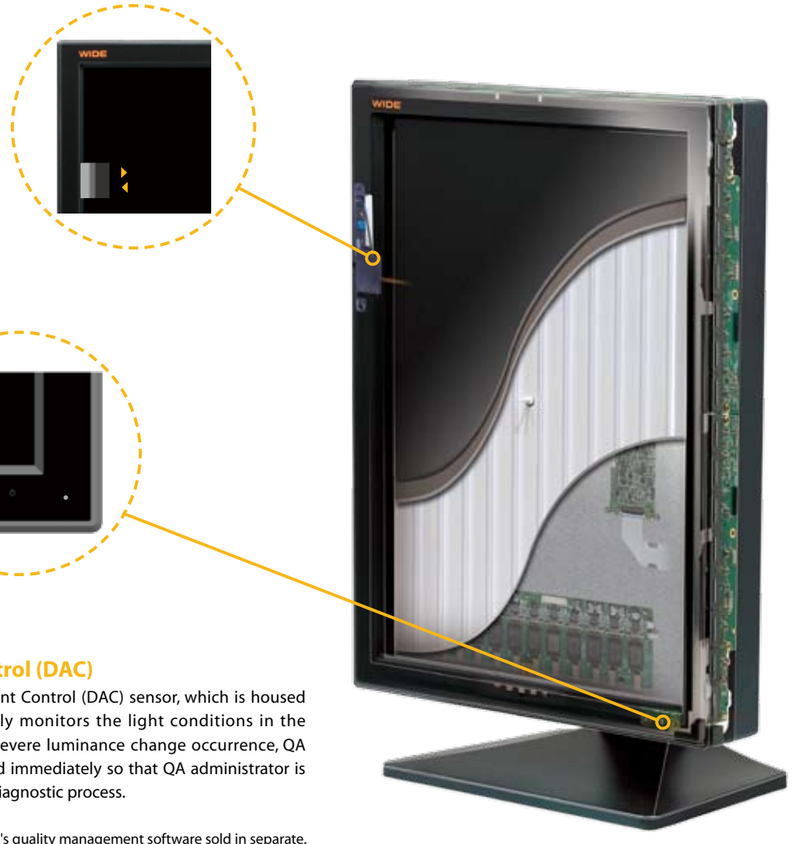
Anti-reflection Coated Protective Glass (Optional)

Our protective glass (optional) has nearly zero loss of transmittance thanks to the double-side AR (Anti-reflection) coated material.



IQ Sensor™ II - World's First Built-in Moving Sensor for DICOM Calibration

WIDE's Patented IQ Sensor™ II sets a new benchmark for medical imaging by offering the world's first moving sensor for simple grayscale calibration. The IQ Sensor™ II ensures that the display meets the Grayscale Standard Display Function (GSDF) requirements as defined by DICOM Part 14. The IQ Sensor™ II is automatically stored in the bezel when not in use so there is no obstruction of the screen.



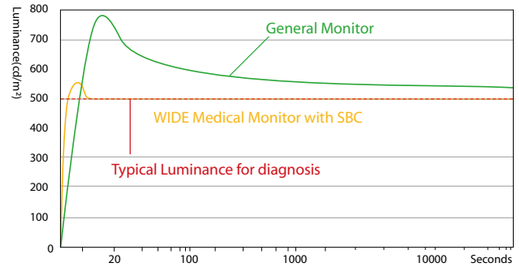
Digital Ambient Control (DAC)

Our on-board Digital Ambient Control (DAC) sensor, which is housed in the bezel, also constantly monitors the light conditions in the reading room. If there is a severe luminance change occurrence, QA administrator will be notified immediately so that QA administrator is able to get rid of any risk in diagnostic process.

※ This function works with WIDE's quality management software sold in separate.

Stable Brightness Control (SBC)

Our on-board Stable Brightness Control (SBC) detects the brightness change of the backlight and automatically calibrates the brightness of the LCD backlight to maintain the best consistency of image quality and LCD backlight stabilization. The SBC sensor constantly monitors the luminance output of the backlight and adjusts its brightness level when necessary.



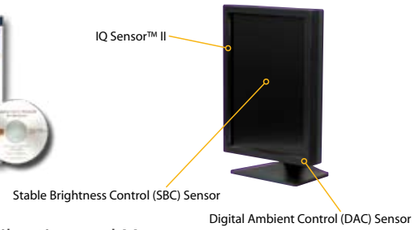
Medical Monitor Solutions
Power Series

One Touch OSD Controls with Blue LED Illumination

The new Power series monitors equip with sensitive touchpads for easy monitor adjustment. The controls can be seen in a dark room with embedded blue LED illumination. The on-screen display automatically pivots so it is readable in portrait and landscape configurations.

Image Quality Assurance System (IQAS)

WIDE's Image Quality Assurance System (IQAS) guarantees optimal on-screen peformance through a combination of our IQ Sensor ™ II, Stable Brightness Control (SBC), our quality management software (LumiCal™). IQAS maintains image quality and performance, automates QA tasks such as initial display calibration and DICOM Part 14 GSDF configuration.



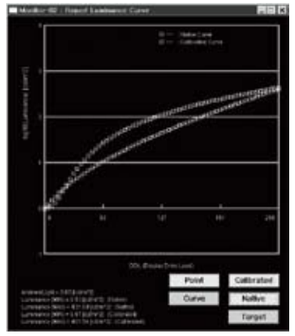
Versatile Configuration

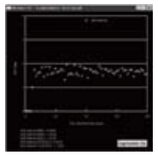
WIDE Power Series monitors are able to be configured in dozens of combinations for a customized information display.

2M Color 3M Mono 5M Mono 3M Mono 3M Color 5M Mono

Monitor Calibration and Management

- DICOM Part 14 GSDF
- Calibration
- Conformance test
- Grayscale uniformity test
- Back light time



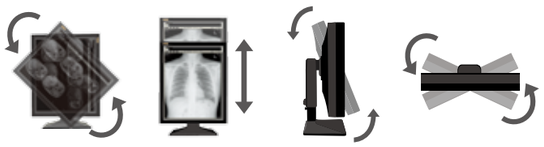


Result of Conformance Test

Result of Uniformity Test

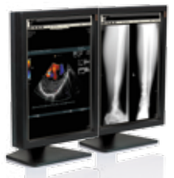
Ergonomic Standbase

The standbase allows the monitor screen to be adjusted easily between portrait and landscape formats as well as height, tilt, and swivel adjustment.



Paring of color and grayscale monitors

The new Power series 2MP and 3MP monitors consist each of color and grayscale monitors with 100% physical compatibility. It offers exact matching for color and grayscale bundled installation as a set of combination.

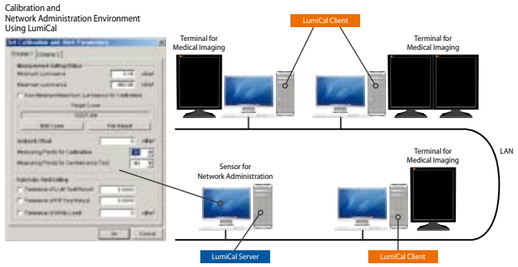


2MP Color and Grayscale monitor
Model: IF2002CP and IF2002MP

3MP Color and Grayscale monitor
Model: IF2103CP and IF2103MP

Network Administration

- Simultaneous calibration
- Alert functions (e-mail notification of error)
- Power supply watch
- Security control
- Scheduling administration



IF2105MP 5MP

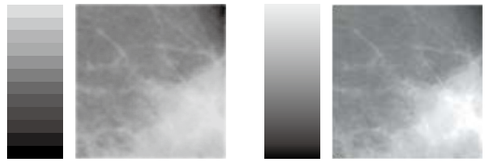
5M Monochrome Monitor for Digital Mammography

12BIT | IQSensor | LUC | 500 | DAC | OSD | Pivot | Multi function Stand-base | Protector | DVI | HB | W 3YR

12-Bit Grayscales for Precise Grayscale Expression

The 12-bit grayscale performance displays 4096 tones for precise imaging when viewing monotone scans.

※ Note that 12-bit viewing software is required for 12-bit displays.



8-bit (256) RGB

12-bit (4096) RGB

World's Top Class Uniformity for Mammography Reading

When reading mammograms, maximum uniformity across the entire display is a requirement. WIDE's new 5MP monochrome monitor is equipped with our Luminance Uniformity Control (LUC) in order to achieve our industry leading performance of 95 percent luminance uniformity giving users the highest level of confidence when making a critical diagnosis.

Without Luminance Uniformity Control (LUC)

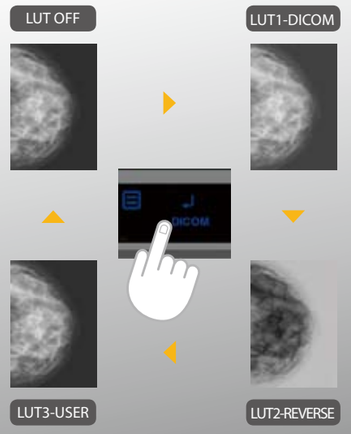
With Luminance Uniformity Control (LUC)

Built-in IQ Sensor™ II for DICOM Calibration

The new built-in advanced IQ Sensor™ II automatically calibrates our IF2105MP monitor to conform with DICOM standards. The new IQ Sensor™ II offers the increased read-out speed and enhanced sensitivity down to the lower luminance levels thanks to the high resolution and advanced sensor performance.

Multiple LUT Modes

The new Power series monitors offer multiple pre-defined LUT (Look-up Table) modes including DICOM mode. A preferred mode can be selected by the dedicated DICOM key button called 'DICOM" located at the bottom of the front bezel.



IF2103MP 3MP

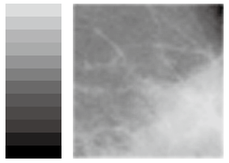
3M Monochrome Monitor

12BIT | IQSensor | LUC | 500 | DAC | OSD | Pivot | Multi function Stand-base | Protector | DVI | HB | W 3YR

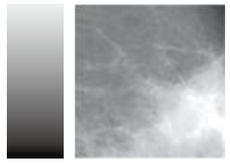
12-Bit Grayscales for Maximum Precision

The 12-bit grayscale performance displays 4096 tones for precise imaging when viewing monotone scans.

※ Note that 12-bit viewing software is required for 12-bit displays.



8-bit (256) RGB



12-bit (4096) RGB

Luminance Uniformity Control (LUC)

The monitor can be optimized with over 90% luminance uniformity performance in typical by the Luminance Uniformity Control (LUC).

Without Luminance Uniformity Control (LUC)

With Luminance Uniformity Control (LUC)

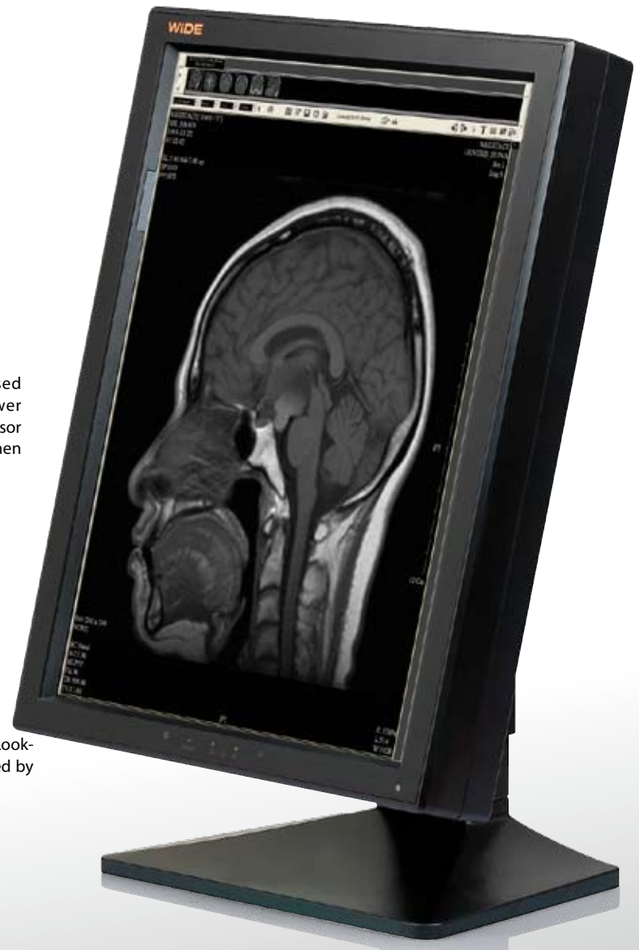
IF2002MP 2MP

2M Monochrome Monitor

12BIT | IQSensor | LUC | 500 | DAC | OSD | Pivot | Multi function Stand-base | Protector | DVI | HB | W 3YR

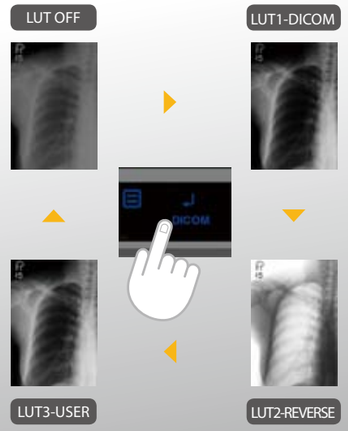
Built-in IQ Sensor™ II for DICOM Calibration

The built-in new advanced IQ Sensor™ II offers the increased read-out speed and enhanced sensitivity down to the lower luminance levels thanks to the high resolution and advanced sensor performance. The moving sensor can be stored in the bezel when not in use so there is no obstruction of the screen.



Multiple LUT Modes

The new Power series monitors offer multiple pre-defined LUT (Look-up Table) modes including DICOM mode. A mode can be selected by the dedicated DICOM key button very easily.



IF2103CP 3MP

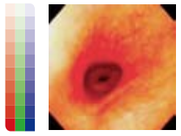
3M Color Monitor

12BIT · IQSensor · LUC · 500 · DAC · OSD · Pivot · Multi function Stand-base · Protector · DVI · HB · W 3YR

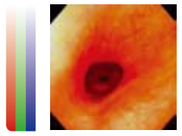
12-Bit Colors Expressions

Each of RGB can be expressed with a 12-bit (4,096) tones of colors. The 12-bit architecture provides very precise resolution to express medical imaging.

※ Note that 12-bit viewing software is required for 12-bit displays.



8-bit (256) RGB



12-bit (4096) RGB

Luminance Uniformity Control (LUC)

WIDE's Power Series color monitors can achieve 90 percent luminance uniformity performance using our exclusive Luminance Uniformity Control (LUC).

Without Luminance Uniformity Control (LUC)

With Luminance Uniformity Control (LUC)

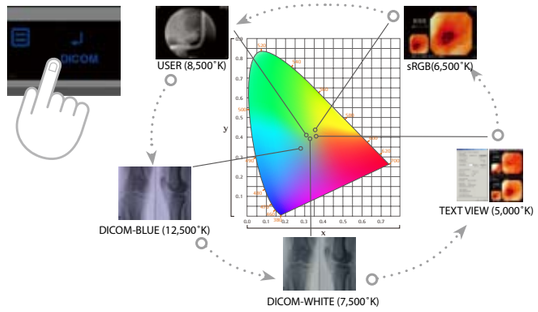
IF2002CP 2MP

2M Color Monitor

12BIT · IQSensor · LUC · 500 · DAC · OSD · Pivot · Multi function Stand-base · Protector · DVI · HB · W 3YR

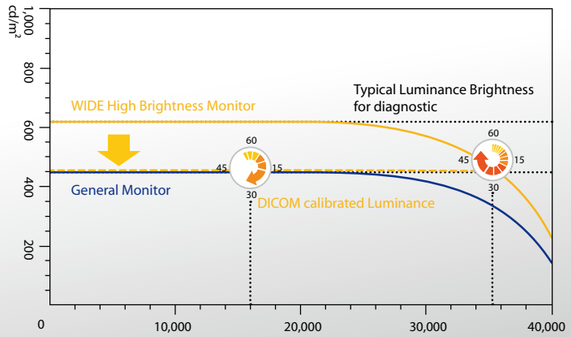
Multiple DICOM Modes

WIDE color imaging monitors provide multiple diagnostic modes enabling the monitor to multitask in a radiology application. Every diagnostic mode delivers extremely accurate color temperature values. The user is able to choose a preferred mode by pressing the dedicated DICOM selector right on the bezel.



High Brightness Color

WIDE's new High Brightness display provides luminance brightness for radiology applications with a backlight life and consistency that is approximately twice as long as a typical monitor.



Built-in IQ Sensor™ II for DICOM Calibration

The built-in new advanced IQ Sensor™ II offers the increased read-out speed and enhanced sensitivity down to the lower luminance levels thanks to the high resolution and advanced sensor performance. With the door in/out capability, there is no blocking of the image area.

IF1901M 1MP

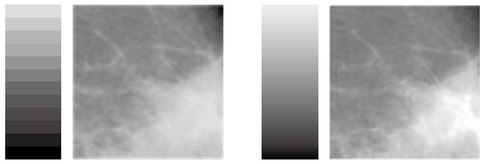
1M Monochrome Monitor

10BIT | 500 | Pivot | Multi function Stand-base | | DVI | VGA | Protector | W 3YR

10-Bit Simultaneous Monitor

10-bit (1,024 grayscale tones) from 12-bit look-up table (LUT) can be displayed simultaneously for high resolution medical imaging.

※ Note that 10-bit viewing software is required for 10-bit displays.



8-bit (256) RGB　　10-bit (1024) RGB

Multiple Interface and Connectivity

The IF1901MP is capable of displaying legacy PC and video sources through its multiple built-in connectors.

DVI-I　VGA　S-VIDEO　COMPOSITE　SOG

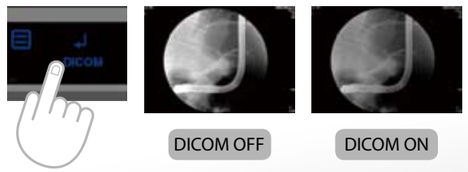
IF1901MP 1MP

1M Monochrome Monitor

10BIT | 500 | Pivot | Multi function Stand-base | | DVI | VGA | VIDEO | Protector | W 3YR

Preset DICOM mode

Our 1MP monochrome monitors provide a pre-calibrated DICOM mode. The DICOM mode can be selected by pressing the dedicated DICOM selector right on the bezel.



DICOM OFF　DICOM ON

High Advanced Video Image Processing (IF1901MP)

- Motion adaptive deinterlacing
- Dynamic edge enhancement
- Spatial noise reduction
- Low-angle jaggy-free

Jaggies　Jaggy-Free

IF1911C 1MP

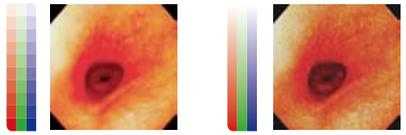
1M Color Monitor

10BIT | 150 | Pivot | Multi function Stand-base | DVI | VGA | Protector | W 3YR

10-Bit Simultaneous Monitor

Each of RGB can be expressed with a 10-bit (1,024) tones of colors from the 12-bit look-up-table. It provides more precise resolution expression of medical imaging.

※ Note that 10-bit viewing software is required for 10-bit displays.



8-bit (256) RGB

10-bit (1024) RGB

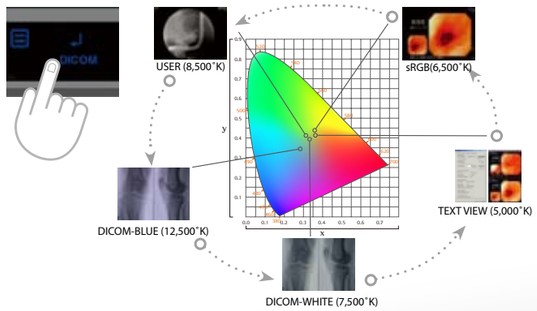
Multiple Interface and Connectivity

The IF1911CP is capable of displaying legacy PC and video sources through its multiple built-in connectors.

DVI-I VGA S-VIDEO COMPOSITE SOG

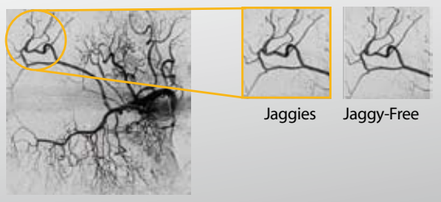
Preset DICOM mode

A medical professional can easily select from multiple preset modes including DICOM-White, DICOM-Blue, Text View, sRGB, and a customizable user setting by a selector sensor on the bezel.



High Advanced Video Image Processing (IF1911CP)

- Motion adaptive de-interlacing
- Dynamic edge enhancement
- Spatial noise reduction
- Low-angle jaggy-free



Jaggies Jaggy-Free

IF1911CP 1MP

1M Color Monitor

10BIT | 150 | Pivot | Multi function Stand-base | DVI | VGA | VIDEO | Protector | W 3YR

IF2400C 2MP

2M Full HD Color Monitor

8BIT | 300 | Pivot | Multi function Stand-base | DVI | VGA | VIDEO | YPbPr | W 3YR

Graphic Card Compatibility

		*SMD5-ADV	*SMD3-DUL	*SMD2-PCI	Med5MP	Med3MP
Key Features / Model Names	OS System supported	Windows2000/XP	Windows2000/XP	Windows2000/XP	Windows2000/XP	Windows2000/XP
	Frame Buffer Memory	512MB	128MB	128MB	256MB	256MB
	Bus Interface	PCI Express (x1)	PCI-32bit (33/66MHz)	PCI-32bit (33/66MHz)	PCI-32bit/ 64bit(33/66MHz)	PCI-32bit/ 64bit(33/66MHz)
	Max resolution	2048x2560	1536x2048	1200x1600	2048x2560	1536x2048
	Output	DVI x 2	DVI x 2	DVI x 2	DVI x 2	DVI x 2
IF2105MP	5M mono DVI	COMPATIBLE			COMPATIBLE	
IF2103MP	3M mono DVI	COMPATIBLE	COMPATIBLE		COMPATIBLE	COMPATIBLE
IF2002MP	2M mono DVI	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
IF1901M	1M mono DVI/VGA	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
IF1901MP	1M mono DVI/VGA	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
IF2103CP	3M color DVI	COMPATIBLE	COMPATIBLE			
IF2002CP	2M color DVI	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
IF1901C	2M color DVI/VGA	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
IF1911CP	1M color DVI/VGA	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
IF2400C	2M color WIDE DVI/VGA					

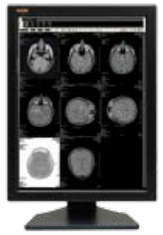
Med2MP	*FireGL7300	*FireGL5200	*MV2250	FX4500	FX3400	FX1500
Windows2000/XP	Windows2000/XP	Windows2000/XP	Windows2000/XP	Windows2000/XP	Windows2000/XP	Windows2000/XP
256MB	512MB	256MB	256MB	512MB	256MB	256MB
PCI-32bit/ 64bit(33/66MHz)	PCI Express(x16)	PCI Express(x16)	PCI Express(x16)	PCI Express(x16)	PCI Express(x16)	PCI Express(x16)
1200x1600	2048x2560	2048x2560	1200x1600	2048x2560	2048x2560	2048x2560
DVI x 2	DVI x 2	DVI x 2	DVI x 2	DVI x 2	DVI x 2	DVI x 2
	COMPATIBLE	COMPATIBLE		COMPATIBLE	COMPATIBLE	COMPATIBLE
	COMPATIBLE	COMPATIBLE		COMPATIBLE	COMPATIBLE	COMPATIBLE
COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
	COMPATIBLE	COMPATIBLE		COMPATIBLE	COMPATIBLE	COMPATIBLE
COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE
	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE	COMPATIBLE

* WIDE recommended.

Monitor Specifications
Monochrome

5MP

IF2105MP



3MP

IF2103MP

LCD Panel	TFT AMLCD IPS Grayscale	TFT AMLCD IPS Grayscale
Native Resolution	2048x2560	1536x2048
Pixel Pitch (HxV)	0.165mm x 0.165mm	0.207mm x 0.207mm
Active Display Area (HxV)	422.4 x 377.9mm (16.6" x 13.3")	423.9 x 318.0mm (16.6" x 12.5")
Active Screen Size (Diagonal)	540.9mm (21.3")	528mm (20.8")
Viewing Angle(H,V) (Typical)	170˚, 170˚ at 10:1 contrast	170˚, 170˚ at 10:1 contrast
Brightness Max.	1000 cd/m^2	1000 cd/m^2
Brightness Calibrated	500 cd/m^2	500 cd/m^2 (LUT 1-DICOM)
Contrast Ratio (Typical)	700:1 without LUC 600:1 with LUC	900:1 without LUC 750:1 with LUC
Luminance Uniformity (Typical)	95% with LUC	90% with LUC
Scanning Frequency	H-sync: 99-107KHz, V-sync: 47-53Hz, Dot Clock: 142-152MHz (DUAL)	H-sync: 92-98KHz, V-sync: 58-62Hz, Dotclock: 120-132MHz (Dual)
PC Signal Input	DVI-D (VESA DVI standard compliance)	DVI-D (VESA DVI standard compliance)
Video Source Input/Output	None	None
Display Communication	DDC2B (VESA compliance)/USB	DDC2B (VESA Compliance)/USB
Universal Serial Bus (USB)	1 up and 2 down-streams	1 up and 2 down-streams
Power Supply	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.67Amp	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.67Amp
Power Save Mode	DVI DMPM	DVI DMPM
Power Consumption	75Watts	75Watts
Sensor Built-in	IQ Sensor™ II, SBC, DAC	IQ sensor™, SBC, DAC
Display Adjustment Control	Finger Touch Sensors with LED Illumination	Finger Touch Sensors with LED Illumination
Display Controls	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness
OSD Languages (5 languages)	English, German, French, Spanish, Italian	English, German, French, Spanish, Italian
Tilt/Swivel/Height Adjustment	-3˚,+30˚/±30˚/108mm	-3˚,+30˚/±30˚/108mm
Portrait/Landscape Rotation	90˚ (Counter clockwise)	90˚ (Counter clockwise)
Mounting Hole	VESA Standard (100x100mm)	VESA Standard (100x100mm)
Weight	With Stand: 10Kg Without Stand: 7.2Kg	With Stand: 8.9Kg Without Stand: 6.1Kg
Operational Temperature	0˚C to 40˚C (32˚F to 104˚F)	0˚C to 40˚C (32˚F to 104˚F)
Operational Humidity	10% to 80%	10% to 80%
Storage Temperature	-20˚C to 60˚C (4˚F to 140˚F)	-20˚C to 60˚C (4˚F to 140˚F)
Certifications and Standards	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC
Supplied Accessories	Power Cord, Power Adaptor, DVI-to-DVI signal cable, CD-ROM (USB Driver), User's Manual, Warranty Card (Optional)	Power Cord, Power Adaptor, DVI-to-DVI signal cable, CD-ROM (USB Driver), User's Manual, Warranty Card (Optional)

2MP

IF2002MP

1MP

IF1901M

1MP

IF1901MP

TFT AMLCD IPS Grayscale	TFT AMLCD IPS Grayscale	TFT AMLCD IPS Grayscale
1200x1600	1280x1024	1280x1024
0.249mm x 0.249mm	0.294mm x 0.294mm	0.294mm x 0.294mm
398.4 x 298.8mm (15.6" x 11.7")	376.3 x 301.1mm (14.8" x 11.8")	376.3 x 301.1mm (14.8" x 11.8")
498mm (19.6")	480.0mm (19.0")	480.0mm (19.0")
170˚, 170˚ at 10:1 contrast	170˚, 170˚ at 10:1 contrast	170˚, 170˚ at 10:1 contrast
1000 cd/m^2	1000 cd/m^2	1000 cd/m^2
500 cd/m^2 (LUT 1-DICOM)	500 cd/m^2	500 cd/m^2
850:1 without LUC 700:1 with LUC	900:1	900:1
90% with LUC		
H-sync: 75-78KHz, V-sync: 60-62.4Hz, Dotclock: 162-170MHz (Single)	H-sync: 15-80KHz, V-sync: 50-75Hz, Dot Clock: 27-135MHz	H-sync: 15-80KHz, V-sync: 50-85Hz, Dot Clock: 13.5-135MHz
DVI-D (VESA DVI standard compliance)	DVI-D (VESA DVI standard compliance), PC VGA RGB Analog	DVI-D (VESA DVI standard compliance), PC RGB VGA Analog
None	None	Input: Composite, S-video, SOG (BNC) Output: VGA, SOG (BNC)
DDC2B (VESA compliance)/USB	DDC2B (VESA compliance)	DDC2B (VESA compliance)
1 up and 2 down-streams	None	None
AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.67Amp	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.0Amp	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.0Amp
DVI DMPM	DVI DMPM	VESA DPMS, DVI DMPM
75Watts	65Watts Power ON mode (Max), Less than 5Watts in Power Save mode (DPMS)	65Watts Power ON mode (Max), Less than 5Watts in Power Save mode (DPMS)
IQ sensor™, SBC, DAC	SBC	SBC
Finger Touch Sensors with LED Illumination	Finger Touch Sensors with LED Illumination	Finger Touch Sensors with LED Illumination
Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness
English, German, French, Spanish, Italian	English, German, French, Spanish, Italian	English, German, French, Spanish, Italian
-3˚,+30˚/±30˚/108mm	-3˚,+30˚/±30˚/108mm	-3˚,+30˚/±30˚/108mm
90˚ (Counter clockwise)	90˚ (Counter clockwise)	90˚ (Counter clockwise)
VESA Standard (100x100mm)	VESA Standard (100x100mm)	VESA Standard (100x100mm)
With Stand: 7.7Kg Without Stand: 4.9Kg	With Stand: 8.6Kg Without Stand: 5.8Kg	With Stand: 8.7Kg Without Stand: 5.9Kg
0˚C to 40˚C (32˚F to 104˚F)	0˚C to 40˚C (32˚F to 104˚F)	0˚C to 40˚C (32˚F to 104˚F)
10% to 80%	10% to 80%	10% to 80%
-20˚C to 60˚C (4˚F to 140˚F)	-20˚C to 60˚C (4˚F to 140˚F)	-20˚C to 60˚C (4˚F to 140˚F)
UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC
Power Cord, Power Adaptor, DVI-to-DVI signal cable, CD-ROM (USB Driver), User's Manual, Warranty Card (Optional)	Power Cord, Power Adaptor, DVI-to-DVI signal cable, User's Manual, Warranty Card (Optional)	Power Cord, Power Adaptor, DVI-to-DVI signal cable, Vide Cable, S-Video Cable, User's Manual, Warranty Card (Optional)

Monitor Specifications
Color

3MP

IF2103CP

2MP

IF2002CP

LCD Panel	TFT AMLCD IPS Color	TFT AMLCD IPS Color
Native Resolution	1536x2048	1200x1600
Pixel Pitch (HxV)	0.207mm x 0.207mm	0.249mm x 0.249mm
Active Display Area (HxV)	423.9 x 317.9mm (16.6" x 12.5")	398.4 x 298.8mm (15.6" x 11.7")
Active Screen Size (Diagonal)	528mm (20.8")	498mm (19.6")
Viewing Angle(H,V) (Typical)	170˚, 170˚ at 10:1 contrast	170˚, 170˚ at 10:1 contrast
Brightness Max.	600 cd/m^2	600 cd/m^2
Brightness Calibrated	DICOM WHITE: 400 cd/m^2 DICOM BLUE: 350 cd/m^2	DICOM WHITE: 400 cd/m^2 DICOM BLUE: 350 cd/m^2
Contrast Ratio (Typical)	600:1 without LUC 500:1 with LUC	600:1 without LUC 500:1 with LUC
Luminance Uniformity (Typical)	90% with LUC	90% with LUC
Scanning Frequency	H-sync: 92-98KHz, V-sync: 58-62Hz, Dotclock: 120-132MHz (Dual)	H-sync: 75-78KHz, V-sync: 60-62.4Hz, Dotclock: 162-170MHz (Single)
PC Signal Input	DVI-D (VESA DVI standard compliance)	DVI-D (VESA DVI standard compliance)
Video Source Input/Output	None	None
Display Communication	DDC2B (VESA compliance)/USB	DDC2B (VESA compliance)/USB
Universal Serial Bus (USB)	1 up and 2 down-streams	1 up and 2 down-streams
Power Supply	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.67Amp	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.67Amp
Power Save Mode	DVI DMPM	DVI DMPM
Power Consumption	110Watts	85Watts
Sensor Built-in	IQ sensor™, SBC, DAC	IQ Sensor™TM II, SBC, DAC
Display Adjustment Control	Finger Touch Sensors with LED Illumination	Finger Touch Sensors with LED Illumination
Display Controls	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness
OSD Languages (5 languages)	English, German, French, Spanish, Italian	English, German, French, Spanish, Italian
Tilt/Swivel/Height Adjustment	-3˚,+30˚/±30˚/108mm	-3˚,+30˚/±30˚/108mm
Portrait/Landscape Rotation	90˚ (Counter clockwise)	90˚ (Counter clockwise)
Mounting Hole	VESA Standard (100x100mm)	VESA Standard (100x100mm)
Weight	With Stand: 9.2Kg Without Stand: 6.4Kg	With Stand: 7.4Kg Without Stand: 4.6Kg
Operational Temperature	0˚C to 35˚C (32˚F to 95˚F)	0˚C to 35˚C (32˚F to 95˚F)
Operational Humidity	10% to 80%	10% to 80%
Storage Temperature	-20˚C to 60˚C (4˚F to 140˚F)	-20˚C to 60˚C (4˚F to 140˚F)
Certifications and Standards	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC
Supplied Accessories	Power Cord, Power Adaptor, DVI-to-DVI signal cable, CD-ROM (USB Driver), User's Manual, Warranty Card (Optional)	Power Cord, Power Adaptor, DVI-to-DVI signal cable, CD-ROM (USB Driver), User's Manual, Warranty Card (Optional)

1MP

IF1911C

1MP

IF1911CP

2MP

IF2400C

TFT AMLCD Color	TFT AMLCD Color	TFT AMLCD Color
1280x1024	1280x1024	1920x1200
0.294mm x 0.294mm	0.294mm x 0.294mm	0.270mm x 0.270mm
376.3 x 301.1mm (14.8" x 11.8")	376.3 x 301.1mm (14.8" x 11.8")	518.4 x 324.0mm (20.4" x 12.7")
480.0mm (19.0")	480.0mm (19.0")	611.3mm (24.06")
170˚, 170˚ at 10:1 contrast	170˚, 170˚ at 10:1 contrast	178˚, 178˚ at 10:1 contrast
300 cd/m^2	300 cd/m^2	500 cd/m^2
150 cd/m^2 (DICOM White)	150 cd/m^2 ((DICOM White)	300cd/m2 ((DICOM White)
1000:1	1000:1	1000:1
H-sync: 15-80KHz, V-sync: 50-75Hz, Dot Clock: 27-135MHz	H-sync: 103.9KHz, V-sync: 50.06Hz, Dot Clock: 148MHz	H-sync: 30-80KHz, V-sync: 50-75Hz, Dotclock: 193MHz (Max)
DVI-D (VESA DVI standard compliance), PC VGA RGB Analog	DVI-D (VESA DVI standard compliance), PC VGA RGB Analog	DVI-D (VESA DVI standard compliance), PC VGA RGB Analog
None	Input: Composite, S-video, SOG (BNC) Output: VGA, SOG (BNC)	Input: Composite, S-video, Component(YPbPr)
DDC2B (VESA compliance)	DDC2B (VESA compliance)	DDC2B (VESA compliance)
None	None	None
AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.0Amp	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +12V, 6.0Amp	AC Input: AC100-240Volt+±10%, 60Hz/50Hz±3Hz DC output: +24V, 5Amp
VESA DPMS, DVI DMPM	VESA DPMS, DVI DMPM	VESA DPMS, DVI DMPM
65Watts Power ON mode (Max), Less than 5Watts in Power Save mode (DPMS)	65Watts Power ON mode (Max), Less than 5Watts in Power Save mode (DPMS)	95Watts in Power ON mode (Max), Less than 6Watts in Power Save mode (DPMS)
SBC	SBC	
Finger Touch Sensors with LED Illumination	Finger Touch Sensors with LED Illumination	Push Buttons
Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness	Power On/Off, Menu, Exit, Left/Right, DICOM mode, Brightness	Power On/Off, Source, Menu, Exit, -/+, Up/Down, Auto, DICOM mode (Hidden Button)
English, German, French, Italian, Spanish	English, German, French, Italian, Spanish	English, Japanese, Chinese, German, French,Spanish, Italian
-3˚,+30˚/±30˚/108mm	-3˚,+30˚/±30˚/108mm	-3˚,+30˚/±30˚/108mm
90˚ (Counter clockwise)	90˚ (Counter clockwise)	90˚ (Counter clockwise)
VESA Standard (100x100mm)	VESA Standard (100x100mm)	VESA Standard (100x100mm)
With Stand: 8.0Kg Without Stand: 5.2Kg	With Stand: 8.1Kg Without Stand: 5.3Kg	With Stand: 11.5Kg Without Stand: 8.5Kg
0˚C to 40˚C (32˚F to 104˚F)	0˚C to 40˚C (32˚F to 104˚F)	0˚C to 40˚C (32˚F to 104˚F)
10% to 80%	10% to 80%	10% to 80%
-20˚C to 60˚C (4˚F to 140˚F)	-20˚C to 60˚C (4˚F to 140˚F)	-20˚C to 60˚C (4˚F to 140˚F)
UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC	UL60601-1, CE, CCC, IEC/EN6060-1 FCC Class B, VCCI, CE, MIC, CCC	CE, MIC
Power Cord, Power Adaptor, DVI-to-DVI signal cable, User's Manual, Warranty Card (Optional)	Power Cord, Power Adaptor, DVI-to-DVI signal cable, Vide Cable, S-Video Cable, User's Manual, Warranty Card (Optional)	Power Cord, DVI-to-DVI signal cable, VGA Cable, Video Cable, Component Cable, S-Video Cable, User's Manual, Warranty Card (Optional)

Maximum Visual Precision

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